



CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3'
CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'

CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3' CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

Fig. 1A

Fluorescent Dyes

	Absorbance Maxima	Emission Maxima
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

Fig. 1B

Cleaved Fragments:

Fig. 1C

Fig.



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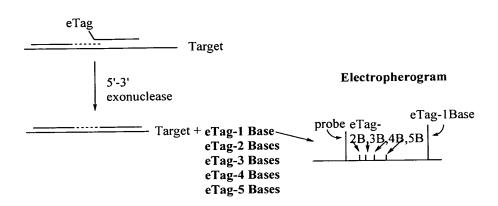


Fig. 3A

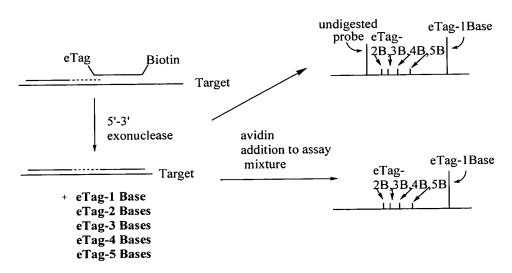


Fig. 3B

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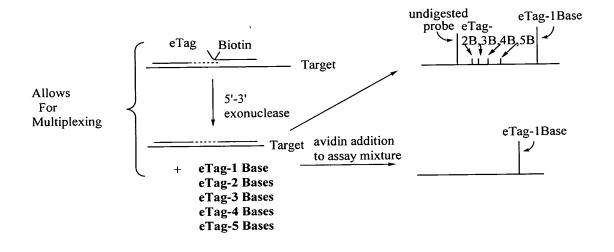


Fig. 3C

Fig. 3D

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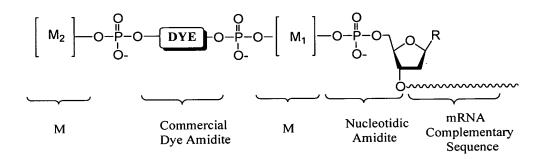


Fig. 4

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e-tag Reporter	Elution Time on CE, min	Mass
COOH OP-ONO NH HO OP-ONO NO NHO OP-ONO NHO NH	6.4	778
CI CI COOH	NH ₂ N 7.1	925
CI CI COOH NH2 O CI O NO CI CI O NO CI CI O O NO CI CI O O O NO CI CI O O O O O O O O O O O O O O O O O	7.3	901
HO O O O O O O O O O O O O O O O O O O	H ₂ N 7.7	994
CI CI COOH O CI O NH HN OMe OMe O-P-O-ON OMe OMe O-P-O-ON HO. O. O	8.0	985
CI CI COOH NH2 O-P-O-OH OH O	9.25	961

Fig. 5

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e-tag Reporter	Charge	Elution Time, min
O Fluorescein		
HN () O - P - C ₃ C ₃ C ₃ C ₃ C ₃ C ₃ -		12.1*
Fluorescein O HN O-P-O-C ₆ C ₆ C ₆ C	;C ₆ C ₆ — −9	12.7
O Fluorescein	яс	
HN () O-P-O-C6C6C6C6	,C ₆ − -8	12.8
O Fluorescein HN O -P-O-C ₆ C ₆ C ₆ C	-7	13.1
HN () O-P-O-C ₃ C ₃ C ₉ —		13.0
OF Fluorescein OF O-P-O-C ₆ C ₆ C ₆ -	-6	13.4
O Fluorescein HN O P O C ₃ C ₃ O Fluorescein	-5	12.8*
$O-\tilde{P}-O-C_3C_9$	-5	13.2*
OFFluorescein OFF-O-C ₉ C ₉	-5	14.8
OFFluorescein HN () O-P-O-TTTdC	- 6	17.3
O Elucroscein	-5	17.0
HN () O-P-O-TTdC 5 O-P-O-C ₉ N Fluorescein HN () O-P-O-C ₉ O Fluorescein HN () O-P-O-TdC 5 O-P-O-TdC	- 4 T	15.2*
OFFluorescein OFF-O-TdC	-4	16.5

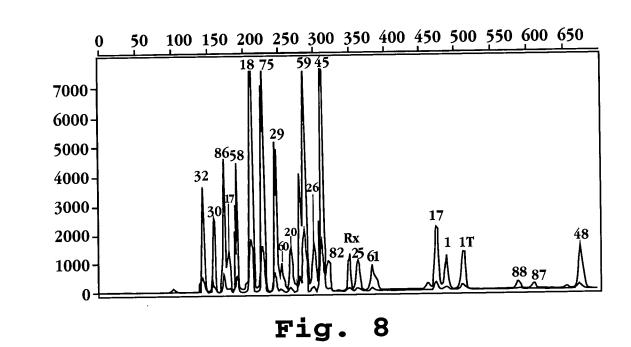
Fig. 6

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Fig. 7

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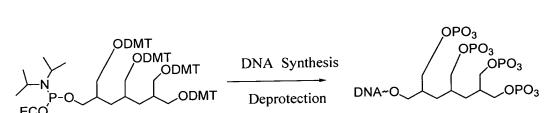
gerig gerig gerig overg B.B. gerig betwee odd gerig b.H. gerig overg gerig odd bad o'ar' baa' how ''' bad oodd oodd o'ab. II bad ''' bad how bad odd

$$\begin{array}{c} \text{HO} \\ \text{DMTO} \\ \text{OCE} \end{array}$$

Fig. 9

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(9 negative charges per coupling)

Fig. 10

HO COH Pyridine HOOC HOOC,
$$CH_2Cl_2$$

HOOC H₂N' nOH HO N CEO P-N CI

Fig. 11

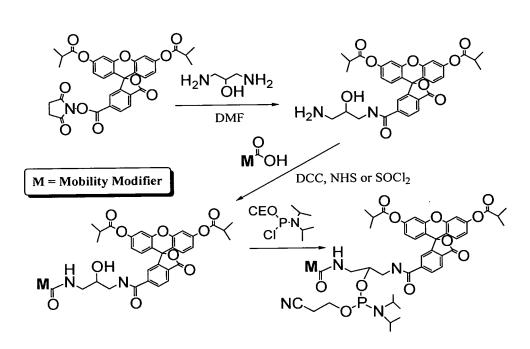


Fig. 12

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Fig. 13

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HO, HO,

YOH,OH

R

H₂N N₂N

-CONH₂

OH H₂N

H₂N

CH₂OH H₂N

 H_2^N

SBnOMe

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SBn OH H₂N

H₂N,

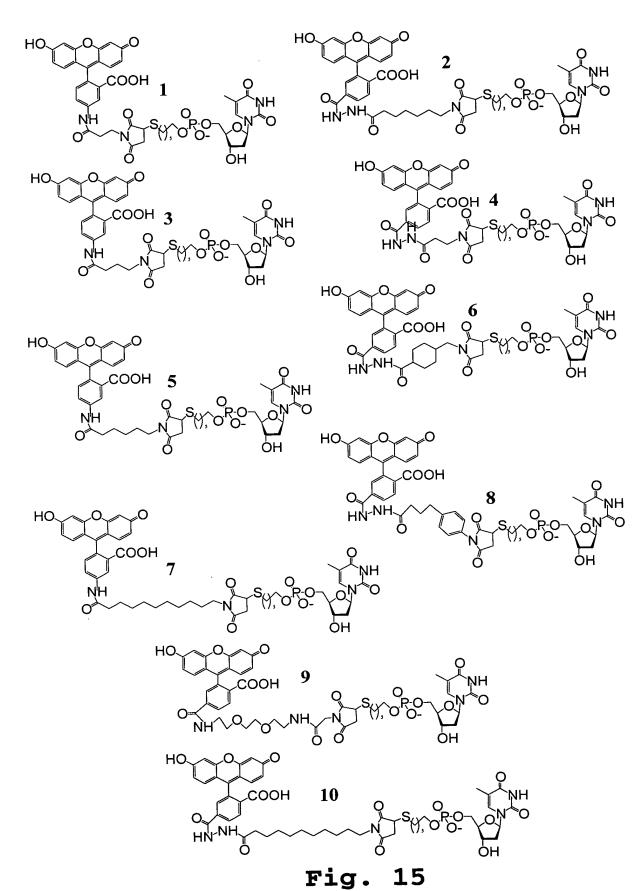
`S' OH H₂N_\

 $\overset{\checkmark}{N_2}$

Fig.

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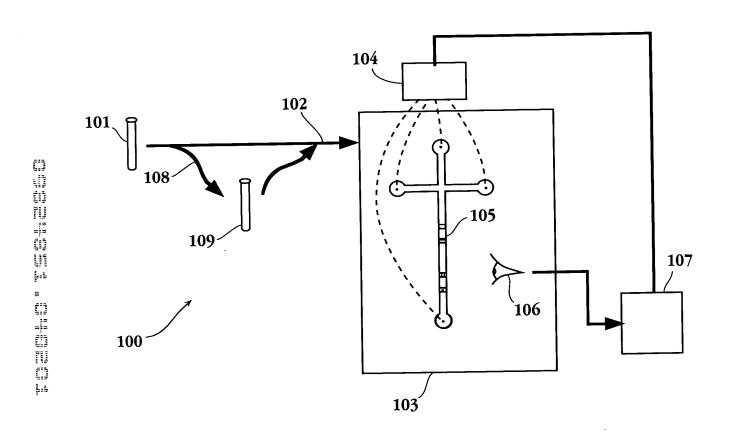


Fig. 16

O Fluorescein HN dC

ACLA002

ACLA003

ACLA004

ACLA005

ACLA006

ACLA007

ACLA008

ACLA009

ACLA010

ACLA011

ACLA012

Fig. 17A

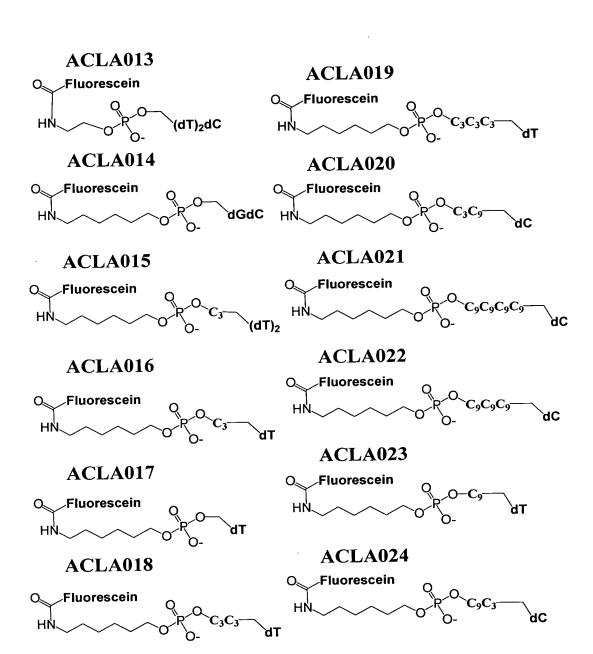


Fig. 17B

ACLA026

ACLA027

ACLA028

ACLA029

ACLA030

ACLA031

ACLA032

ACLA033

ACLA034

ACLA035

ACLA036

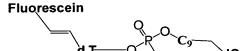
Fig. 17C

O Fluorescein HN C₆ C

ACLA038

ACLA039

ACLA040



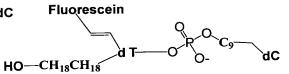
ACLA041

ACLA042

ACLA043

ACLA044

ACLA045



ACLA046

ACLA047

Fig. 17D

Fluorescein

ACLA049

Fluorescein

ACLA050

ACLA051

ACLA052

ACLA053

O Fluorescein
$$C_4C_4C_4C_4$$
 C_4

ACLA054

ACLA055

ACLA056

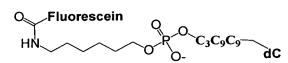
Fluorescein
$$C_9C_9C_4$$
 dC

ACLA057

ACLA058

ACLA059

Fig. 17E



ACLA061

ACLA062

ACLA063

ACLA064

ACLA065

ACLA066

ACLA067

ACLA068

ACLA069

Fig. 17F

and the first time is a fact time of the first time the first time time the first time.

offer they would strate the strate in

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Fig. 17G



ACLA081

ACLA082

ACLA083

ACLA084

ACLA085

ACLA086

ACLA087

ACLA088

Fig. 17H

the rank they is a tead that the tead that The thirth worth the street that

Fluorescein

ACLA090

Fluorescein

$$C_3C_3C_3TC_3$$
 d T—O O O dC

ACLA091

Fluorescein

$$C_{12}T$$
 d T C_{9} C_{9}

ACLA092

Fluorescein

ACLA093

Fluorescein

ACLA094

Fluorescein

$$C_{12}$$
 C_{12} d T C_{9} dC

ACLA095

ACLA096

Fluorescein

ACLA097

Fig. 17I

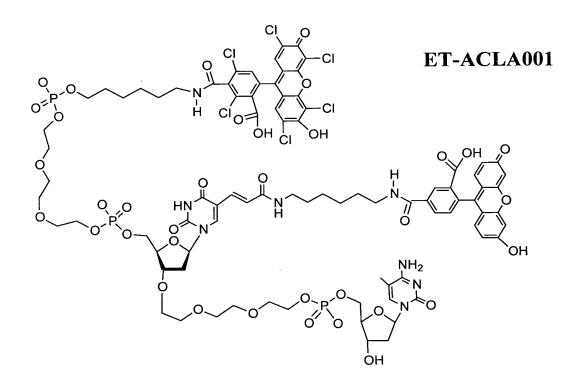
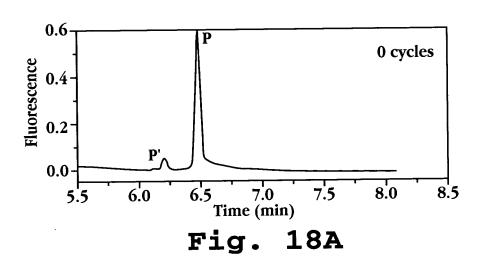
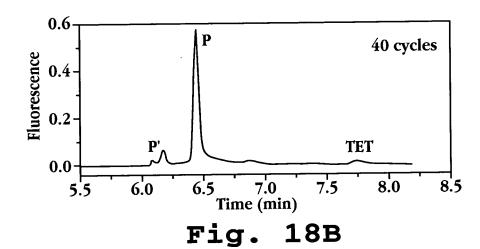


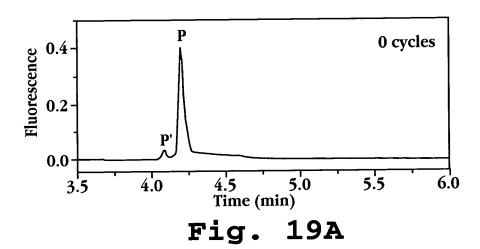
Fig. 17J

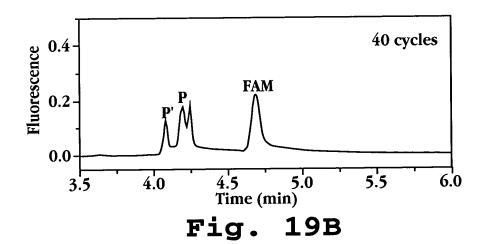
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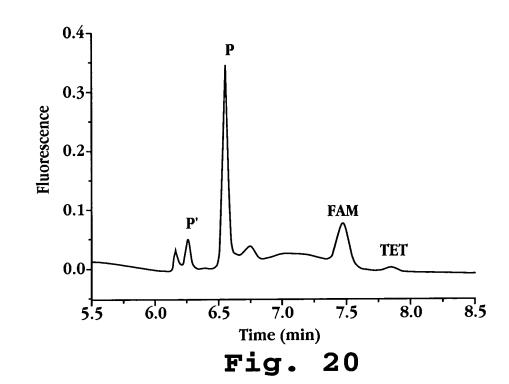


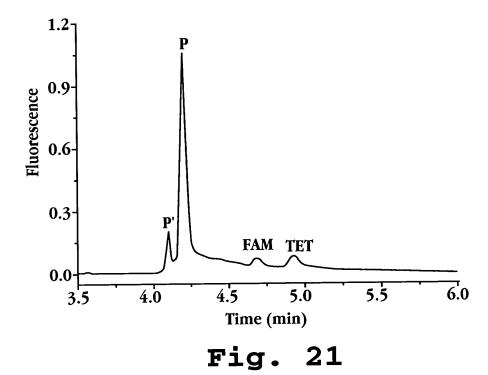




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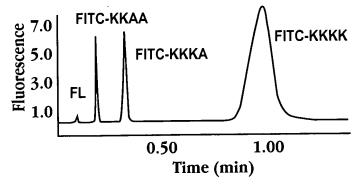
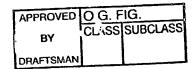


Fig. 22



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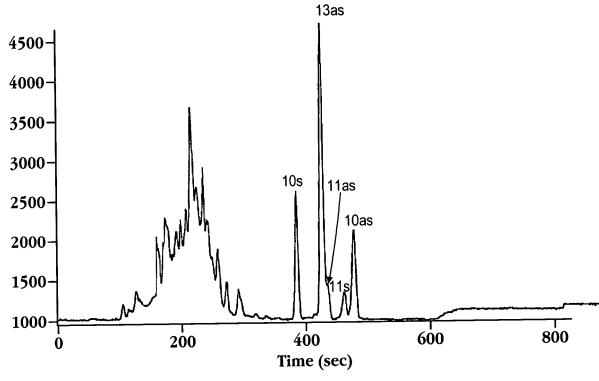


Fig. 23A

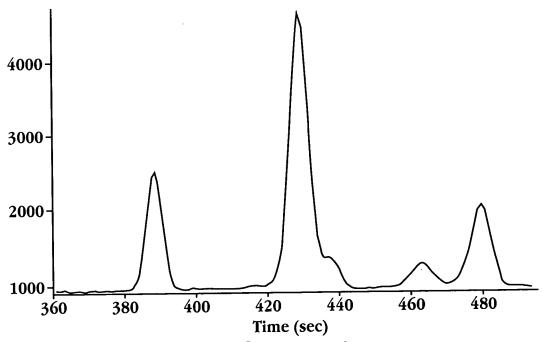


Fig. 23B

dark given given was to the given below the second of the given that given was given given and the given given the second of the

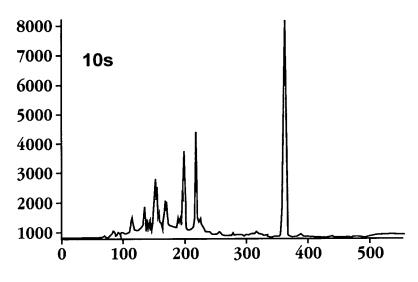


Fig. 23C

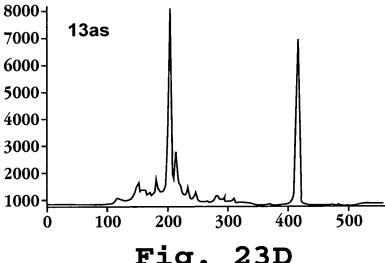


Fig. 23D

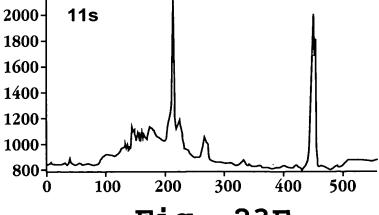


Fig. 23E

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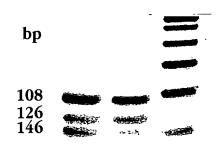


Fig. 23F

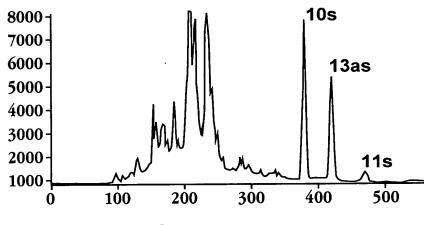


Fig. 23G



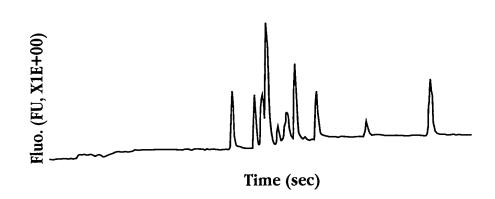


Fig. 24



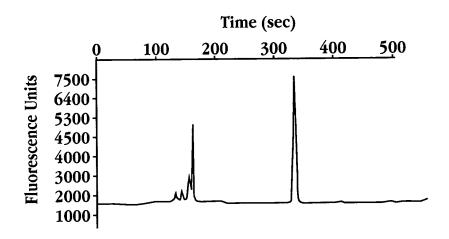


Fig. 25A

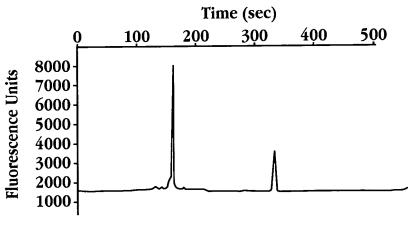
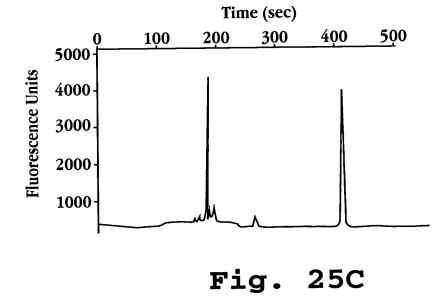


Fig. 25B

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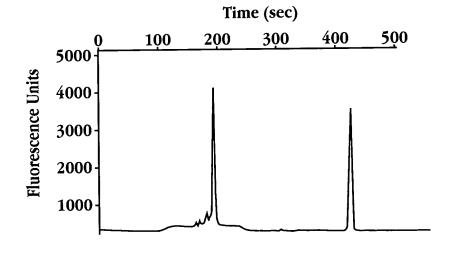


Fig. 25D

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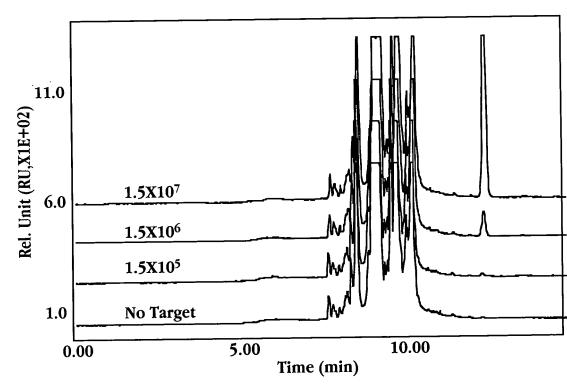


Fig. 26

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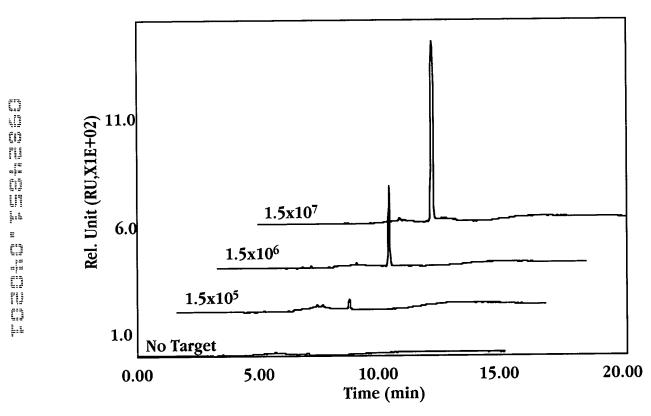


Fig. 27

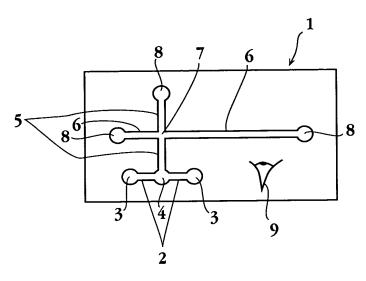


Fig. 28A

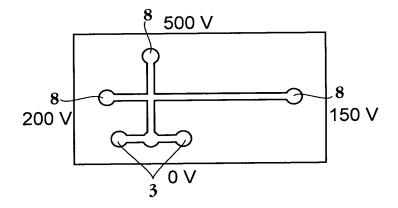


Fig. 28B

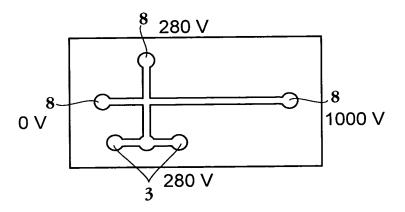


Fig. 28C

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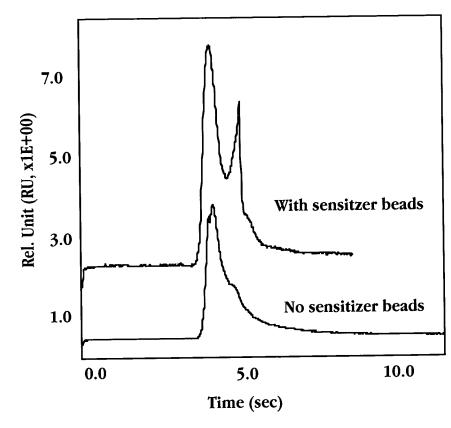


Fig. 29

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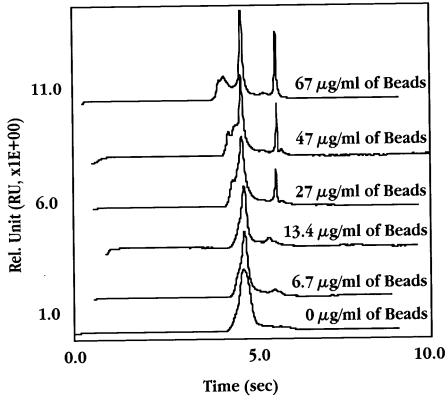


Fig. 30

of a contract the property of the property of

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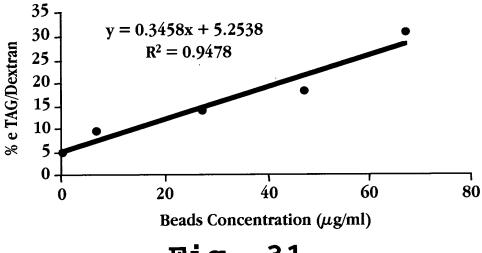


Fig. 31

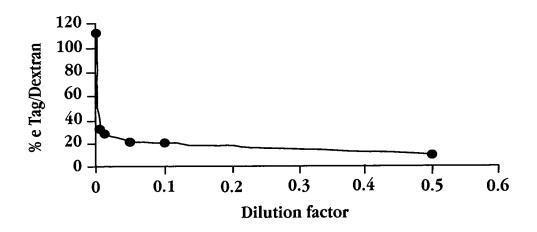


Fig. 32



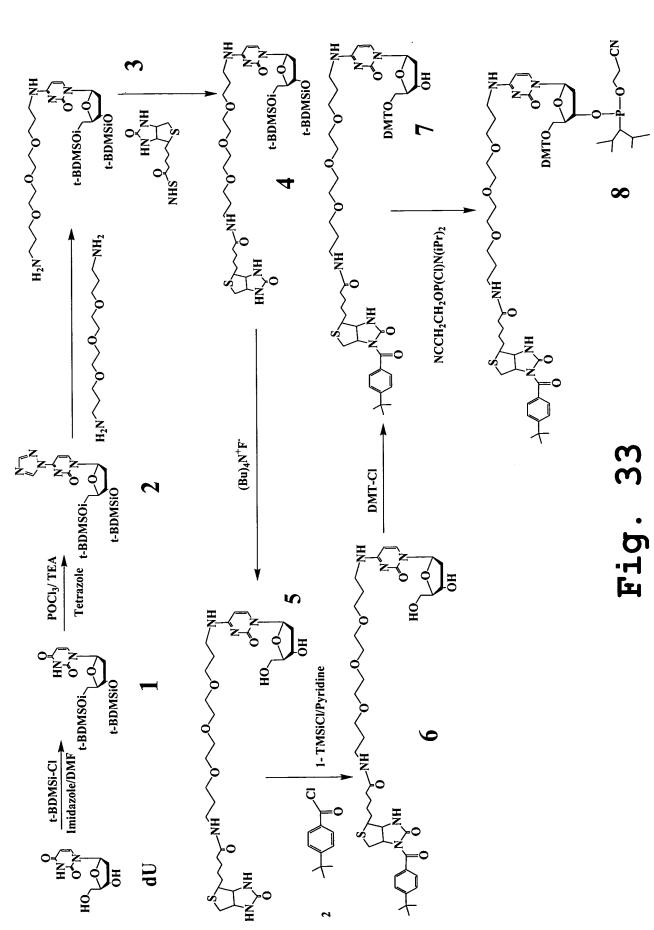


Fig. 34